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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

03/23/2009

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

ANTHONY, JOSEPH DAVID

ART UNIT PAPER NUMBER

1796

DATE MAILED: 03/23/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/581.063 | 05/30/2006 | Wook Yeal Yoon | O95215 | 6872 |

TITLE OF INVENTION: COMPOSITION FOR ACTION OF RESIST-FIRE AND FIRE-EXTINGUISHING

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES | \$755 | \$300 | \$0 | \$1055 | 06/23/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

| ppropriate. All further ndicated unless correcte naintenance fee notifica | correspondence includir ed below or directed oth tions | ng the Patent, advance on nerwise in Block 1, by (a | ders and notification a) specifying a new co | of m orresp | naintenance fees w pondence address; | rill be and/or | mailed to the current (b) indicating a separ | correspondence address as rate "FEE ADDRESS" for |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Feets | e) Tranemittal. Thi | s certif | icate cannot be used fo | domestic mailings of the or any other accompanying tor formal drawing, must |
| SUITE 800 | VANIA AVENUE | | | | Cert | tificate | of Mailing or Transn | |
| WASHINGTON | I, DC 20037 | | | | | | | (Depositor's name) |
| | | | | _ | | | | (Signature) |
| | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVEN | TOR | | ATTO: | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/581,063 | 05/30/2006 | . correct or protest ry | Wook Yeal Your | | | | Q95215 | 6872 |
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| APPLN. TYPE | YES | \$755 | \$300 | JUE | \$0 | LEE | TOTAL FEE(S) DUE \$1055 | 06/23/2009 |
| nonprovisional | | · | · · · · · · · · · · · · · · · · · · · | _ | 20 \$1022 | | 00/23/2009 | |
| ANTHONY, JC | | ART UNIT 1796 | 252-002000 | | | | | |
| Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON | | | 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. THE PATENT (print or type) data will appear on the patent. If an assignee is identified below, the document has been filed for T a substitute for filing an assignment. | | | | | |
| a. The following fee(s): Issue Fee Publication Fee (N | iate assignee category or | 4t | o. Payment of Fee(s): (A check is enclos Payment by credi | Pleased. | Individual Cose first reapply and | orporati ny prev is atta | on or other private gro iously paid issue fee s | |
| | | | overpayment, to I | Depos | sit Account Numbe | er | equired fee(s), any def | extra copy of this form). |
| | tus (from status indicated s SMALL ENTITY state | , | ☐ b. Applicant is no | long | er claiming SMAI | L ENT | ΓΙΤΥ status. See 37 CF | FR 1.27(g)(2). |
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| n application. Confiden ubmitting the completed his form and/or suggesti | tiality is governed by 35 dapplication form to the ions for reducing this but irginia 22313-1450. DC | U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th | 1.14. This collection in depending upon the interest of the Chief Information O | s esti indivi Iffice: | mated to take 12 r idual case. Any co r. U.S. Patent and | ninutes mment Traden | to complete, including s on the amount of tin park Office, U.S. Depa | by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450, |

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| 2100 PENNSYLVANIA AVENUE, N.W. | | | ART UNIT | PAPER NUMBER |
| SUITE 800 WASHINGTON, | DC 20037 | | 1796 DATE MAILED: 03/23/200 | 9 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 602 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 602 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | | | | | | |
|--|--|---|--|--|--|--|--|--|
| | 10/581,063 | YOON, WOOK YEAL | | | | | | |
| Notice of Allowability | Examiner | Art Unit | | | | | | |
| | Joseph D. Anthony | 1796 | | | | | | |
| The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI | (OR REMAINS) CLOSED in this a or other appropriate communicati IGHTS. This application is subject | application. If not included on will be mailed in due course. THIS | | | | | | |
| 1. This communication is responsive to | | | | | | | | |
| 2. The allowed claim(s) is/are <u>1-2</u> . | | | | | | | | |
| 3. Acknowledgment is made of a claim for foreign priority urea. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). | been received. been received in Application No. | | | | | | | |
| * Certified copies not received: | | | | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | | | | | | | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | | | | | | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | | | | | | |
| (a) ☐ including changes required by the Notice of Draftspers | (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | | | | | | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | | | | | | | |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date | | | | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). | | | | | | | | |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | | | | | | | |
| | | | | | | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), | 5. ☐ Notice of Informa 6. ☐ Interview Summa Paper No./Mail D 7. ☐ Examiner's Amen 8. ☑ Examiner's State | ry (PTO-413), Date | | | | | | |
| | 9. Other | | | | | | | |
| | | | | | | | | |

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 05/30/06 and 09/05/06.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Applicant's independent claim 1 reads as followed:

"A composition for fire-resisting and fire-extinguishing comprising monobasic sodium phosphate, dibasic ammonium phosphate, borax, boric acid, polyoxyalkylated alkyl phosphoric acid ester and water in a ratio of about 1: about $1 \sim 5$: about $0.3 \sim 1.5$:

Applicant's said independent claim is deemed to be free of any prior-art rejection since there are no prior-art references, either individually or in combination, that teach or suggest a composition which contains all the above components in the claimed concentration ratios. While all the above components are individually known in the art to be used in fire extinguishing and/or flame retarding compositions, their combination together at the claimed concentration ratios, is unknown and unobvious over the priorart.

The closest piece of prior-art is deemed to be Rock U.S. Patent Number 5,156,890. Rock teaches a method for imparting flame resistance to fabric articles comprising natural or regenerated fibers is provided for. The method comprises: applying a detergent solution to fabric articles; rinsing the detergent solution from the fabric articles; applying an aqueous solution of one or more water-soluble flame retardant compounds to the damp fabric articles; removing excess amounts of the aqueous flame retardant solution from the fabric articles; recycling the excess amount of the aqueous retardant solution for use in treating other fabric articles; filtering the

recycled aqueous flame retardant solution; and drying the fabric articles. Specifically disclosed flame retarding mixtures taught by Rock are: 1) borax, boric acid and diammonium phosphate (47/20/33), and 2) borax, boric acid and sodium phosphate dodecahydrate (50/35/15). Said mixtures are subsequently added to an aqueous composition at a concentration from about 8 to about 30 wt. %, see column 4, lines 38-58 and claims 3 and 6. Please note that the sodium phosphate dodecahydrate component is a species of a "sodium phosphate, dibasic" and NOT a species of a "sodium phosphate, monobasic" as claimed by applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior-Art Cited But Not Applied

Any prior-art reference which is cited on FORM PTO-892 but not applied, is cited only to show the general state of the prior-art at the time of applicant's invention.

Examiner Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Joseph D. Anthony whose telephone number is (571) 272-1117. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The centralized FAX

Application/Control Number: 10/581,063 Page 4

Art Unit: 1796

machine number is (571) 273-8300. All other papers received by FAX will be treated as Official communications and cannot be immediately handled by the Examiner.

/Joseph D. Anthony/ Primary Patent Examiner Art Unit 1796 03/16/09